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STATE DOCUMENTS

THE CENTER LINE

MONTANA HIGHWAY COMMISSION

Vol. VIII, No. 6 June, 1965

SAFETY MEETINGS CONDUCTED

657 Highway Department employees have attended one of the 14 full-day meetings conducted by the Safety Department with cooperation of the State Maintenance Engineer, the Plant and Equipment manager, the Highway Patrol and the Safety Department of the Industrial Accident Board.

Each meeting was opened by the local District or Division Engineer. The regular program began with an opening address by Tom Ratchford, State Maintenance Engineer, followed by Clint Fulkerson, Safety Director or Vern Gray, Assistant Safety Director, who spoke on all phases of the safety program including clarification of the new Safety Manual. George Wenstrom, Safety Supervisor of the Industrial Accident Board or his assistant. Roy Johnson conducted the last hour of the morning session, explaining the function of the I. A. B., the personal injury record of the Highway Department employees, proper method of reporting injuries and importance of using the proper clothing for the task at hand.

The afternoon sessions began with a short film on the "Smith System of Accident Free Driving" and an address by a member of the Highway Patrol; followed by Plant and Equipment Manager, Pat Martin, explaining equipment procurement procedures, safety devices included in specifications and answering questions about the equipment. The Safety Department filled the remainder of the day with a discussion of safe work practices.

Questions and suggestions from the employees were welcomed throughout the meetings and good participation was enjoyed. Some very good suggestions were received and will be considered by the proper departments.

REPORT THOSE ACCIDENTS!

The State of Montana, in conjunction with the Bureau of Public Roads, has just begun the third year of the Interstate Accident Research Program, Study II. One of the more important portions of this study is the need for an accident expansion factor. To obtain this factor it is necessary to compare the number of reported accidents with the number of unreported accidents on Montana Rural Primary and Interstate routes.

The Traffic Engineer's Department dispatched accident report cards and instructions to all Districts in January, 1965, and these were distributed to Montana Highway Department personnel who periodically travel our highways as a part of their duties. The response to this program has been somewhat sporadic. Initially, the accident report cards arrived in Helena at an appreciable rate but, as time progressed, they have arrived in steadily diminishing numbers. The accident expansion factor is very important to this project and can only be calculated if the accident report cards are received in sufficient numbers to comprise a statistically sound sample.

All Montana Highway Department members who do any traveling are urged to get a supply of accident report cards from their departmental heads and report all accidents they observe on Rural Primaries and Interstate routes.

MORE VEHICLES ON THE HIGHWAYS

The Automobile Manufacturers Association reports that as of June 1, they had produced 5,028,303 vehicles this year.

These new cars and trucks, combined with those already using the highways, will em-

(Continued on page 2)

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Material in the Center Line May Be Copied and Reproduced

AWARD SHEET — Letting of May 25, 1965

Project No.	Amount	Bidder	Address
I 90-2(27) 103 U1 Missoula-Urban (G, GS, CSB, PCC, PMS, DR, Sign & BR's.) Missoula County	$ 2,326,090.86	Zook Brothers	Great Falls, Mont.
I 90-2(27) 103 U2 Missoula Urban (Fencing) Missoula County	$ 42,542.35	U. S. Steel Corporation	Portland, Ore.
F 354 (3) Grantsdale-Porter's Corner (G, GS, PMS, DR & Sign) Granite County	$ 561,529.05	S. Birch, Inc.	Great Falls, Mont.
S 48 (5) Roundup-West & South (G, GS, DR, & Sign) Musselshell County	$ 514,313.60	R. J. Studer & Sons	Billings, Mont.
ER 60(1) & ER 60(2) Shelby-South & Conrad-Shelby (Perm Repair & Riprap) Toole County	$ 21,993.75	Lewis Constr. Co.	Great Falls, Mont.

Total Low Bids—$3,466,469.61

FORMER EMPLOYEE PASSES

Walter McGuire, 71, a former employee of the Highway Department from 1934 to 1942, died in Santa Rosa, California, May 18. He resigned in 1942 to be employed in defense work in the Hawaiian Islands. He returned to work for the Bureau of Public Roads at San Francisco, California, until his retirement several years ago.

He is survived by his widow, Pearl, and a son, Jack. Another son, Howard, a First Lieutenant, was killed in action in Italy.

McGuire had many friends in the Highway Department in the eastern part of the State where he was employed.

MORE VEHICLES

(Continued from page 1)

phasize the need for more and better highways in the United States.

Montana Highway Department is doing its best to provide our share of the nation's roadways for the ever-increasing number of vehicle-miles traveled.

Here's how the Interstate 15 project west of Great Falls looks to the MHD Aerial Photographer. The completed IS 15 toward Vaughn can be seen in the extreme upper right hand corner.

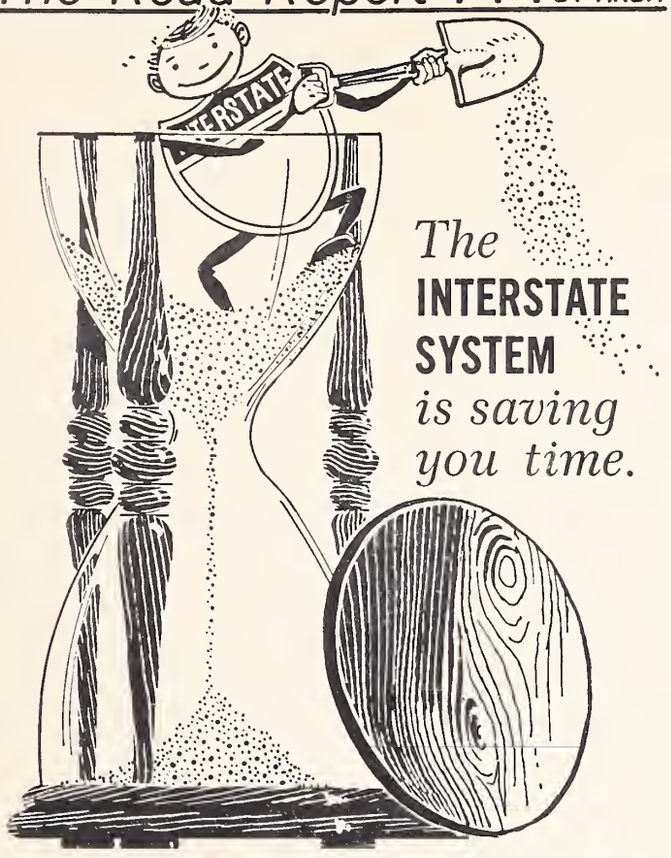
SIXTH GRADERS VISIT DEPARTMENT

A group of about 40 sixth-graders paid a visit to the Helena Headquarters building last month, to observe the processing department, and to see how Xerox machines operated. Gil Warren served as guide and explained the workings of that department to the interested group who voiced their satisfaction by writing individual letters after their return to school. Most of the correspondence sounded like this sample:

"I enjoyed the trip very much and I was also interested very much in the big camera and the printing press. It was very nice of you to show us those machines and explain them to us. I never thought that the Highway Department had so much equipment and that much complicated machinery."

Sincerely yours,
Bob Ecke

The Road Report . . . BY ARBA



When the Interstate is completed in 1972, you will be able to drive from Washington, D. C. to Los Angeles in the same time it used to take to drive from Chicago to Los Angeles.

In Montana, in 1972, motorists who drive the 1,174 miles of Interstate will save 85,620,-025 miles; 6,706,875 hours, and $27,606,775.

One of the early highway users was Ernest H. Richards, who now lives in Modesto, Calif. He is a reader of Centerline, and recently wrote us a letter about his experiences when he operated a stage between Lewistown and Winifred back in 1925-26.

His vehicle was a 1925 Buick, 7-passenger touring car, with side curtains. The picture was taken between Hilger and Winifred after he had hired six men with scoop shovels to open the road.

Centerline is grateful to Mr. Richards for his letter and picture.

There was obviously a need for highways back in 1913, as indicated by this old photo unearthed by Leonard Tidyman, who works in the mail room at the Helena headquarters.

The occasion was an auto show held in the gymnasium of the old Auditorium which was located near the Central school.

These were the latest, up-to-the-minute designs in modern transportation, built to transport people over country lane, and the "main" road with speed and comfort.

Some of the models on display include Peerless, Franklin, Cadillac, Oakland, Biltwell.

The Montana Highway Department has received word that a Montana Association of Highway Employees has been formed, in the Butte Division office.

According to the charter of incorporation, the purpose of the organization is to further the standards, working conditions, professional and semi-professional standing of MHD employees, and to act as sole agent concerning matters such as working conditions and wages.

Officers and directors for the non-profit organization were listed as Leonard J. Haxby, 1104 W. Granite St., Butte, as president; John P. Jones, Treasurer; Raymond M. Grant Vice-President, and Roger E. Doherty, Secretary.

490 YEARS OF SERVICE

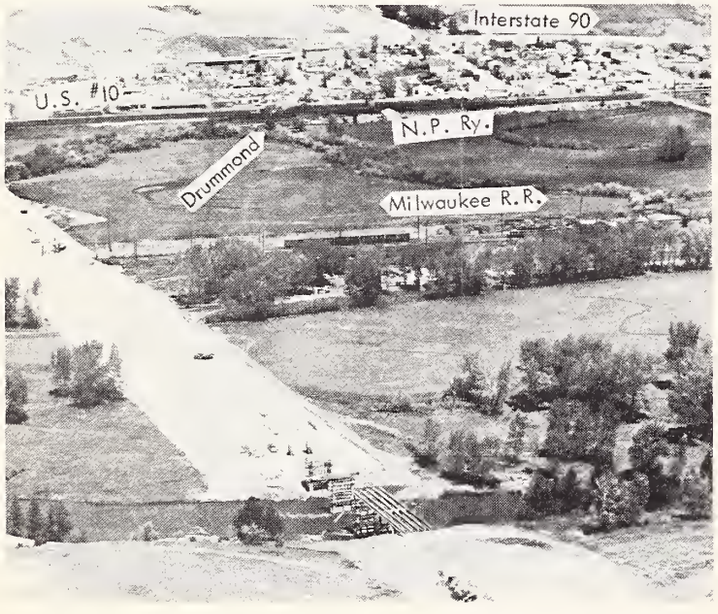
The service awards for May show a total of 490 years of dedicated service to the motorists of Montana, by 36 employees.

Heading this month's list of "old timers" is Garrel Rudeck, who gets a 35-year pin. Four in the 30-year column: George A. Barrett, Kirwin R. Chubb, Albert W. Jones, and Arthur E. Zion. The next category is 20-years and includes Tom Bogy, Marvin Brackman, Peter E. Cassidy, Edgar M. Fossum, Leslie E. Parmly, and Quentin Stober.

For 15 years of service, Edward F. Crouse, Edward R. Mans, Richard Ronan, Xavier Shortell and Ellery Sorensen.

10-year employees are Ralph Clare, Loren R. Matkin, Hubert J. McKenzie, Robert Mendenhall, Alma James, William Richards, Lillian Roberts, Milton Rudio, Richard W. Smith and Fredrick Stratton.

In the 5-year group: Robert J. Harper, Gene Hodges, Harold Juell, Richard Losness, Elva Martin, Clifford Mayer, Burton H. Nelson, Eugene Pankey, George Patterson and James Stoner.



This is the new location of Highway 10-A going south out of Drummond toward Philipsburg. The bridge in the foreground is over the Clarks Fork River, and the present U. S. 10-A is in the upper right hand corner of the photo.

This project is being constructed along with the Interstate around Drummond, and is part of the contract held by Zook Brothers Construction Company of Great Falls.

Ralph Huckaba of Whitehall, is building the bridge over the Clarks Fork River and the structures over the Milwaukee and NP railroads.

Construction in this area totals over $3 million, and 87 men are working for the contractors.

GOLF, ANYONE?

Howard Stockwell, Don Millhouse and some of the golf enthusiasts in the Missoula office conceived the idea of having a Highway Golf Tournament.

Based on the success of the Bowling Tournament in Lewistown, they felt there might be sufficient interest among the employees to have a golf match organized some week-end.

Anyone who has any ideas on the subject should communicate with either of the fellows at Missoula who will tabulate the ideas and go from there.

NEWS FROM THE DIVISIONS

LEWISTOWN

By Bea Knerr

Congratulations to Lowell Rathbun, Project Engineer of Lewistown who has been promoted to Division Construction Engineer, replacing Glenn Learn who retired.

Boys! Boys! Boys! Congratulations to Mr. and Mrs. Pearl Mart, the proud parents of a baby boy born June 4th and to Mr. and Mrs. Duane Thom, also the parents of a baby boy, born on June 4th. Proud grandparents one more time are Bea Knerr and hubby, who have a new grandson born on June 3rd.

Andy Harcharik and wife Gladys, have just returned from a vacation trip out along the coast where Andy did some fishing near Seattle. He was very much disappointed when the guide threw his catch of an 18" salmon back, as it was too small! He also prefers auto travel to boat travel.

Our sincerest sympathy is extended the Dyer family, in the death of Don J. Dyer. Don was known all over the State and had a host of friends.

Lewis Minor has been promoted to Division Maintenance foreman, replacing Don Dyer.

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH, TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID PRIMARY PROJECTS		
101	F 33 (6) & F 108 (9)	6-30-65	8.0 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Roundup.).
102	F 238 (6)	7-15-66	1.9 miles fencing. (Montana 287-Wolf Creek N.).
	F 238 (10)	7-15-66	1.9 miles grade, drain, aggregate & plant mix bituminous surface. Sign. (Montana 287-Wolf Creek N.).
103	F 64 (10)	6-30-65	0.2 mile repair of slide drainage. (U.S. 87-S. of Belt.).
104	F 239 (13)	9-16-65	2.2 miles (0.1 mile Portland Cement Concrete pavement, grade, drain, aggregate surface & plant mix bituminous surface. (U.S. 12-White Sulphur Springs N.E.).
	F 8 (11)	9-16-65	5.2 miles grade, drain, aggregate surface & plant mix bituminous surface. Widen 25-ft. timber bridge-Four Mile Creek to 40 ft. roadway. (U.S. 12-White Sulphur Springs N.E.).
105	F 262 (14)	7-15-65	9.6 miles grade, drain, aggregate & plant mix bituminous surface. Two prestressed concrete beam bridges. One 102-ft.-Thompson Creek. One 142-ft.-Little Missouri River. (U.S. 212-Wyoming Line N.W.).
106	F-FG 68 (12) U1	6-30-65	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation. (U.S. 10A-E. of Anaconda.).
	F-FG 68 (13)	11-30-65	2.7 miles grass seeding. (U.S. 10A-E. of Anaconda.).
107	F 354 (3)	8-15-66	7.0 miles grade, drain, aggregate and plant mix bituminous surface. Signing. (Mont. 38-S.W. of Philipsburg.).
108	U 388 (8)	9-15-67	0.2 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface. Sign. (U.S. 91-S. of Great Falls.).
109	F 220 (8)	7-16-65	3.3 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
	F 154 (6)	7-16-65	4.2 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
110	F 148 (8)	6-30-66	Three prestressed concrete beam bridges. One 172-ft.-Beaver Creek. One 355-ft.-Milk River. One 143-ft.-Milk River Overflow. (U.S. 2-E. of Saco.).
	F 148 (9)	6-30-66	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 2-E. of Saco.).
111	F 69 (11)	10-31-66	0.4 miles grade, drain, aggregate & plant mix bituminous surface. Sign. (U.S. 10-Whitehall approach to I-90.).
112	F 86 (24)	11-15-65	11.8 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 12-E. of Miles City.).
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocation portion of NP RY tracks. (U.S. 89-S. of Livingston.).
114	F 205 (8) U1	11-30-65	1.3 miles grade, drain, aggregate & plant mix bituminous surface. Signing. (U.S. 10A-New alignment-Drummond South).
	F 205 (8) U2	10-31-65	Three prestressed concrete beam structures. One 301-ft.-Clark Fork. One 163-ft.-CMSTP&P RY. One 188-ft.-NP RY. (U.S. 10A-New alignment-Drummond S.)
115	U FG 228 (16)	6-30-65	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass - NP RR. (U.S. 10-In Billings.).
	F 228 (19) U1	7-1-65	0.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10-west Billings Interchange.).
	F 228 (19) U2	7-1-65	0.6 miles fencing. (U.S. 10-West Billings Interchange.).
116	F 260 (10)	7-1-65	0.5 miles, grade, drain, aggregate & road-mix bituminous surface. Support wall for slide area correction. (U.S. 2-E. of W. Glacier.).
117	F 115 (14)	8-4-65	8.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & lighting. (U.S. 12-Harlowton E.).
118	F 149 (21) & F 395 (9)	6-30-65	Lighting & signals. (U.S. 87 & ByPass Junction-Great Falls.).
	F 180 (7)	6-30-65	Lighting & signals. (U.S. 87-E.of Great Falls.).
119	F 193 (16)	9-15-65	1.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-In Plentywood.).
120	ER 60 (2) (F67)	8-31-65	Bridge berm repair and riprapping of Marias River Bridge. (U.S. 91-S. of Shelby.).
121	ER 53 (2) (F 208)	6-30-65	Repair flood damaged 122-ft. prestressed concrete beam bridge-Kennedy Creek & Road Approaches. (U.S. 89-N.W. of Browning.).
122	ER 57 (2) (F 236)	6-30-65	0.2 mile repair flood damage, grade, drain, aggregate & bituminous surface treatment. Install 12'10" S x 8'4" R. x 82" S.F.R.A.C. culvert & Cartwright Coulee. (U.S. 87-N. of Dupuyer.).
123	F 191 (20) U1	6-30-65	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S. 93-N. of Polson.).
124	F 246 (13)	6-30-65	9.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Montana 20S-S.E. of Circle.).
125	F 2 (17)	6-30-65	24.4 miles aggregate & plant mix bituminous surfacing. (Montana 7-N. of Baker.).
126	ER 59 (3)	7-31-65	One 183-ft. prestressed concrete beam bridge-Deep Creek. Road approaches. (Montana 287-S. of Choteau.).
127	F 184 (15)	6-30-65	1.1 mile seeding & mulching. (U.S. 10-N. of Deer Lodge.).
128	ERFO 41 (1) **	1965	1.0 mile grade, drain, aggregate & plant mix bituminous surfacing. One 36-ft. concrete slab bridge-Cougar Creek. (U.S. 191 N. of W. Yellowstone.).
129	F 251 (11)	9-15-65	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-Scobey E.).
130	F 27 (6) & F 28 (5)	9-15-65	6.1 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Grass Range.).
131	F 43 (17)	6-30-65	15.9 miles plant mix bituminous surface. (Montana 43-N. of Wisdom.).
132	F 53 (13) & F 230 (9)	6-30-65	2.1 miles, four-lane median divided grade, drain, aggregate & plant mix bituminous surface. (U.S. 10-Billings E.).
133	ER 57 (6) (F 236)	6-30-65	0.3 miles grade, aggregate & bituminous treatment, bridge approaches. One 122-ft. prestressed concrete beam bridge-Dupuyer Creek Overflow. (U.S. 89-N. of Dupuyer.).
134	F 215 (12) U1	11-30-65	One 122-ft. prestressed concrete beam bridge-Lolo Creek. (U.S. 93-S. of Lolo.).
135	ER 59 (2) (F 65)	9-30-65	One 60-ft. prestressed concrete beam span addition to existing 165-ft. concrete & steel pony truss bridge-Teton River. (U.S. 89-S. of Choteau.).
136	SRP 4220-01-4310-01-23-4030	6-30-65	Repair drainage system & retaining wall of underpass - GN RY. (Mont. 13W-In Wolf Point.).
137	F 191 (28)	10-31-66	One 1536-ft. prestressed concrete beam bridge-Flathead River. 0.4 mile grade, aggregate & plant mix surface approaches. (U.S. 93-Polson W.).
138	F 9999 (2)	12-1-65	348.7 miles signing & delineation. Signals & channelization of three intersections in Helena. (U.S. 12-Garrison to Forsyth.).
140	ER 57 (7) (F 236)	9-30-65	0.3 mile grade, drain, aggregate & bituminous surface treatment. One 82-ft. prestressed concrete beam bridge-Valier Irrigation Canal. (U.S. 89-N. of Dupuyer.).
142	F 190 (6) U1	10-31-66	3.8 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 89-N. of Dupuyer.).
	ROW F 190 (5)	10-31-66	3.8 miles fencing. (U.S. 89-N. of Dupuyer.).
	F 236 (6)	10-31-66	1.8 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 89-N. of Dupuyer.).
	F 190 (6) U2 & ER 57 (3) (F 190)	10-31-65	Two prestressed concrete beam bridges. One 213-ft.-Birch Creek. One 142-ft.-Blacktail Creek. (U.S. 89-N. of Dupuyer.).
143	U 222 (16)	10-31-65	1.3 miles grade, drain, aggregate & plant mix bituminous surface. Signing & traffic control devices. (U.S. 10-In Bozeman.).
144	FG 257 (17)	5-31-66	Lengthen by 50 ft. to 179 ft.-steel & concrete underpass - GN RY. (U.S. 2-E. of Kalispell.).
145	ER 52 (2) (F 375)	7-31-66	Remove bridge in place. Construct one 433 ft-welded plate girder bridge-Middle Fork of Flathead River. (At West Glacier.).
146	ER 53 (3) (F 190)	6-30-66	Two prestressed concrete beam bridges. One 70 ft.-Agency Creek. One 306 ft.-Badger Creek. (U.S. 89-S.E. of Browning.).
	FEDERAL AID SECONDARY PROJECTS		
201	S 340 (8)	8-15-65	4.4 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Chinook.).
202	S 58 (6)	8-31-65	1.1 miles grade, drain, aggregate & plant mix bituminous surface. One 650-ft. welded plate girder bridge-Flathead River. One 128-ft. prestressed concrete beam overpass - NP RY. (Perma North.).
203	R-AD 11 (1) & S 368 (16)	9-15-65	14.9 miles grade, drain, aggregate & plant mix bituminous surface. Widen to 30-ft. roadway bridge over East Fork Cherry Creek. (Glasgow N.).
204	S 316 (11)	6-30-65	7.6 miles grade, drain, aggregate & plant mix bituminous surfacing. (N. of Cut Bank.).
205	S 318 (4) & S 347 (11) *	8-31-65	8.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Ekalaka S.).
206	S-SG 192 (4) U1	7-1-65	1.0 miles grade, drain, aggregate & plant mix bituminous surfacing. Signing & delineation. (Connection to W. Billings Interchange.).
	S-SG 192 (4) U2	7-1-65	1.0 miles fencing. (Connection to W. Billings Interchange.).
	S-SG 192 (5)	6-30-65	One 190-ft. prestressed concrete beam overpass-NP RY. (S.W. of Billings.).
207	S 35 (13)	10-30-65	10.2 miles grade & drain. (W. of Dillon.).
208	S 18 (6)	6-30-65	7.3 miles grade, drain, aggregate & plant mix bituminous surfacing. One 112-ft. prestressed concrete beam bridge-Musselshell River. (Twodot S.).
209	S 237 (3)	9-1-65	5.9 miles grade, drain, aggregate & plant mix bituminous surface. (Jct. with I 15 9-01-65 E. - E. of Kevin.).
210	S 2 (7)	6-15-65	6.2 miles aggregate & plant mix bituminous surface. (Junction Montana 20E.).
211	ERFO 41 (1) **	1965	15.6 miles grade, drain, aggregate & plant mix bituminous surfacing. Two concrete slab bridges. 75-ft. Grayling Creek & 124-ft. Beaver Creek. Widen 83-ft. concrete girder bridges-Cabin Creek. (N.W. of W. Yellowstone.).
212	S-SG 218 (2)	9-30-65	0.6 miles grade, drain, aggregate & plant mix bituminous surfacing. One 34-ft. concrete underpass-Dakota Street. Two 38-ft. steel underpasses-CMSTP&P RR. (Russell St.-S. of Missoula.).
213	S 301 (13)	6-30-65	5.0 miles grade, drain, aggregate & plant mix bituminous surface. (N.W. of Havre.).
214	S 65 (7)	7-1-65	4.9 miles aggregate & plant mix bituminous surface. (S. of Big Fork.).
215	ROW S 370 (13)	6-30-65	Reset 239 rods of fencing. (W. of Wilsall.).
216	S 307 (14)	7-31-65	6.1 miles grade, drain, aggregate & plant mix bituminous surface. Widen three timber bridges to 28-ft.-Little Battle Creek, two 75-ft.-Butte and Cowboy Steel Creek. (S.E. of Geraldine.).
	S 307 (15)	7-31-65	5.1 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Geraldine.).
217	S 264 (4)	6-30-65	Install 120" Structural Plate Pipe. (N. of Van Norman.).
218	S 417 (3)	7-30-65	7.3 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Plentywood.).
219	S 85 (00) U2 & S 85 (3) U2	6-30-65	Three prestressed concrete beam bridges. One 92-ft. & 71-ft.-Horse Prairie Creek. One 71-ft.-Medicine Lodge Creek. (Armstead W.).
220	S 192 (7)	7-1-65	3.2 miles grade, drain, aggregate & plant mix bituminous surface. (N.E. of Laurel.).
221	S 410 (3)	9-1-65	6.6 miles grade & drain. (N. of Troy.).
222	S 405 (3)	10-15-65	7.9 miles grade, drain, aggregate & plant mix bituminous surface. One 163-ft. prestressed concrete beam bridge-Spring Creek. (Hanover E. & W.).
223	ER 53 (4) (FAS 266)	6-30-65	One 173-ft. prestressed concrete beam bridge-Cut Bank Creek. (N. of Browning.).
224	S 413 (3)	6-30-65	1.9 miles grade, drain, aggregate & plant mix bituminous surface. One 102-ft. prestressed concrete beam bridge-Flint Creek. (S. of Drummond E.).
	S 414 (3)	6-30-65	2.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Drummond W.).
225	ER 53 (5) (FAS 249)	6-30-65	One 163-ft. prestressed concrete beam bridge-Cut Bank Creek. (N.W. of Browning.).
226	ER 57 (4) (S 193)	6-30-66	One 285-ft. prestressed concrete beam bridge-Birch Creek. (N.W. of Valier.).
227	S 48 (5)	7-1-66	7.0 miles grade, drain and aggregate surface. Signing. (S. of Roundup.).
228	ER 60 (1) (S109)	8-31-65	Bridge berm repair and riprapping of Marias River bridge. (S.E. of Shelby.).
229	S 419 (3)	8-30-65	0.9 miles grade, drain, aggregate surface. 0.7 miles plant mix bituminous surface. (Approach I 90 Separation-W. of Alberton.).
230	S 243 (5)	10-31-65	0.6 miles grade, drain, aggregate & plant mix bituminous surface. (Bozeman S.).
231	ER 57 (5) (S 193)	7-30-66	One 316-ft. prestressed concrete beam bridge-Two Medicine Creek. (S. of Cut Bank.).
232	FHP 9-1 (2)	1965	3.8 miles grading. (E. of St. Regis).
233	ER 59 (4) (S 341)	7-30-65	Bridge berm repair, stream bank protection and riprapping on bridge-Teton River. (E. of Choteau.).
236	S 9 (10)	6-30-65	3.7 miles reshape, aggregate & plant mix bituminous surface. (S. of Boulder.).
237	S 107 (9)	6-30-65	7.0 miles grade, drain, aggregate & plant mix bituminous surface. Widen timber bridge to 32-ft. roadway. (N.E. of Conrad.).
238	S 400 (4)	6-30-65	6.4 miles aggregate & plant mix bituminous surface. (S. of Hamilton E.).
239	S 426 (4)	8-31-65	0.2 miles grade, drain, aggregate surface, approaches to Gallatin River Bridge. (N.E. of Manhattan.).
240	S 415 (3)	6-30-65	6.0 miles grade, drain, aggregate surface. One 92-ft. prestressed concrete beam bridge-Lake Creek. (E. of Medicine Lake.).
241	S 194 (4)	6-30-65	0.3 miles grade, drain, aggregate surface. One 225-ft. prestressed concrete beam bridge-Box Elder Creek. (E. of Ekalaka.).
242	S 243 (3)	7-31-65	6.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Bozeman.).
243	S 388 (5)	6-30-65	9.5 miles grade, drain, & aggregate surface. (N.E. of Miles City.).
244	US 70 (4)	8-15-65	0.7 miles grade, drain, aggregate & plant mix bituminous surface. (Fifth Avenue in Havre.).
	OFF SYSTEM PROJECTS		
301	GNP 8-A4 *	1965	One 403-ft. prestressed concrete beam bridge-N. Fk. Flathead River. (In Glacier Park.).
	GNP 8-A5 *	1965	8.5 miles grade, drain & base. (In Glacier Park.).
302	ERFO 63 (1) *	1966	Reconstruct seven bridges & repair one bridge. (In Glacier Park.).
303	ERFO 66 (2) *	1965	One 201-ft. treated timber bridge-McDonald Creek. (In Glacier Park.).
304	FHP 59-2 (2)	1966	6.3 miles grade, drain, aggregate & plant mix bituminous surface. One 136-ft. prestressed concrete girder bridge-Rock Creek. (S. of Red Lodge.).
305	ERFO 68 (1)	1965	0.3 miles grade and riprap along N. Fk. Flathead River. (N. of Columbia Falls.).

* - Bureau of Public Roads Projects.

** - Bureau of Public Roads Projects. - Map Index Numbers 128 & 211 one contract.

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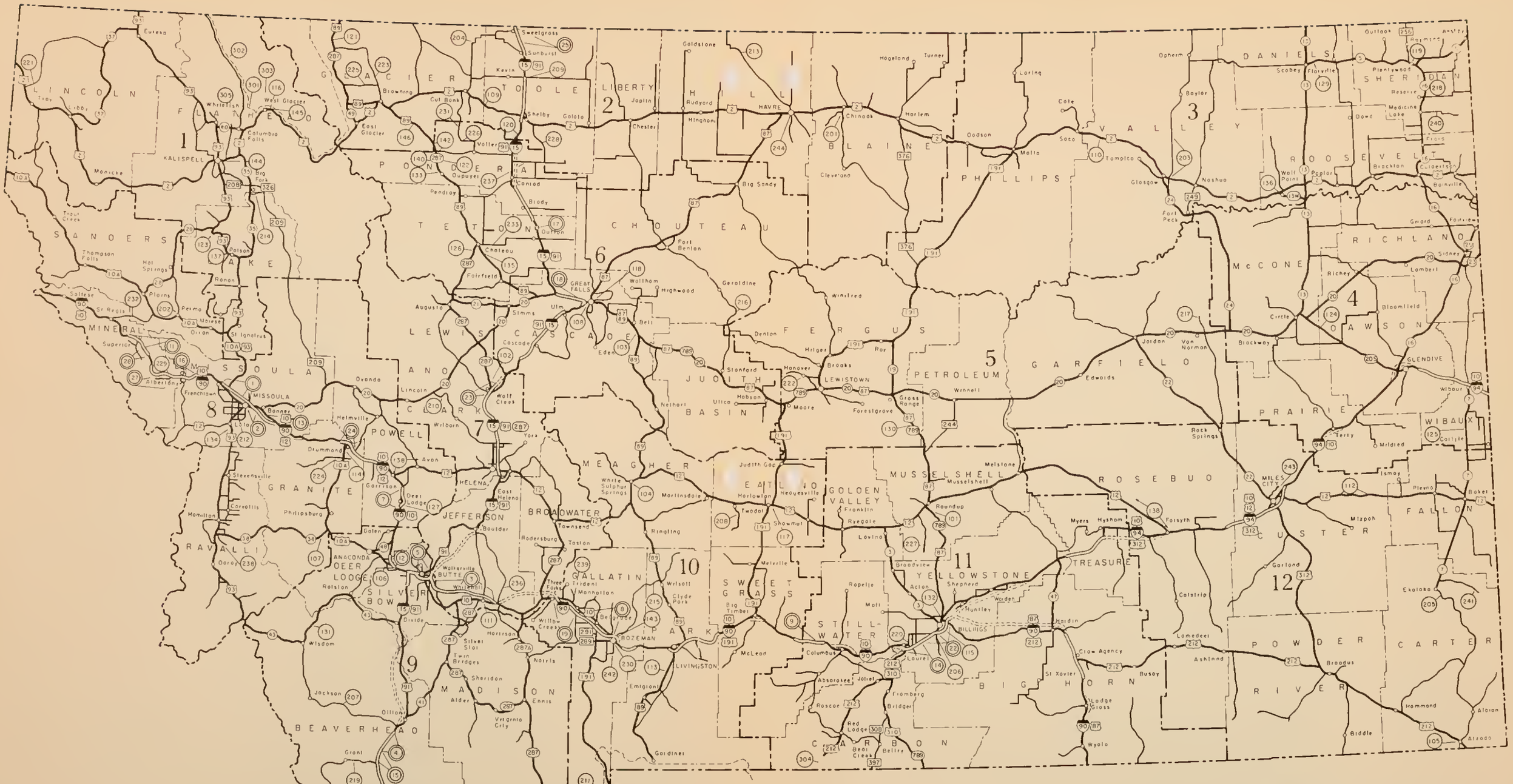

LEGEND

HIGHWAY SYSTEMS

- INTERSTATE (Constructed or under contract)
- INTERSTATE (Proposed)
- PRIMARY
- SECONDARY
- 10 FINANCIAL DISTRICT NUMBER

ROUTE MARKERS

- (90) INTERSTATE
- (10) U.S. NUMBER
- (13) STATE NUMBER
- [499] OTHER NUMBER

INDEX NUMBERS

- (1) INTERSTATE (1 thru 100)
- (101) PRIMARY (101 thru 200)
- (202) SECONDARY (201 thru 300)
- (303) OFF SYSTEM (301 thru 400)

NOTE: Index Number details on reverse of sheet

PROJECTS UNDER CONTRACT
MONTANA HIGHWAY COMMISSION

MAY 28, 1965 (Includes contracts let May 25, 1965)

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH, TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID INTERSTATE PROJECTS		
1	I-IG 90-2 (25) 95 U1	10-31-66	7.8 miles four-lane divided, grade, drain, cement base stabilization, aggregate surface, plant mix bituminous & Portland Cement Concrete paving. Signing. Nine prestressed concrete structures, one 321-ft. Underpass-Deseret interchange, dual 103-ft. overpass - NP RY, dual 138-ft. overpass--county road, dual 195-ft. overpass-Orrel creek & Interchange, two 32-ft. bridges--grant creek on Interchange ramps. (New alignment - I 90--. of Missoula).
	I-IG 90-2 (25) 95 U2	10-31-66	7.8 miles fencing. (New alignment - I 90--. of Missoula).
	I 90-2 (27) 107 U1	10-13-66	3.5 miles four-lane divided grade, drain, cement stabilized base, aggregate surface, cement paving and plant mix bituminous surface. Seven prestressed concrete beam structures. Dual 138-ft.-County Road Separation, Dual 179-ft.-Orlin Avenue Interchange. Dual 245-ft.-Rattlesnake Creek. One 225-ft.-Rattlesnake Creek on ramp. Signing. (New alignment I 90-Missoula Rest.).
	I 90-2 (27) 107 U2	10-13-66	3.5 fencing (New alignment I 90-Missoula Asst)
2	I-IG 90-2 (14) 105 U1	10-15-65	4.9 miles grade, drain, cement base stabilization, aggregate surface, Portland Cement Concrete pavement and plant mix bituminous surface. One 88-ft. steel & concrete RR at overpass-Van Buren Street. Signing & lighting. (New alignment - I 90--.issoula E.).
	I-IG 90-2 (14) 105 U2	10-15-65	4.9 miles fencing. (New alignment - I 90-Missoula E.).
3	I 90-- (8) 226 U1	9-30-65	2.8 miles four-lane divided, gr de, drain, cement stabilized base, aggregate surface, plant mix bituminous surface & concrete pave ent. (New alignment - I 90-Butte S.E.).
	I 90-- (8) 226 U2	8-30-65	2.8 miles fencing. (New alignment - I 90-Butte S.E.).
	I 90-- (10) 229 U1	8-30-66	2.6 miles four-lane divided, grade, drain, aggregate surface, plant mix bituminous surface. Signing. (New alignment - I 90--butte S.E.).
4	I 90-5 (6) 231 U1	8-30-66	2.3 miles four-lane divided, grade, drain, aggregate surface, plant mix bituminous surface. One 230-ft. prestressed concrete beam underpass. Homestake Interchange. Signing. (New alignment - I 90-Butte S.E.).
	I 90-5 (7) 233 U1	8-30-66	7.1 miles four-lane divided, grade, drain, aggregate surface, plant mix bituminous surface. Dual 149-ft. prestressed concrete beam overpass-Pipestone Interchange. (New alignment - I 90-Butte S.E.).
	I 90-4 (10) 229 U2	9-30-65	2.6 miles fencing. (New alignment - I 90-Butte S.E.).
5	I 90-5 (6) 231 U2	9-30-65	2.3 miles fencing. (New alignment - I 90--Butte S.E.).
	I 90-5 (7) 233 U2	9-30-65	7.1 miles fencing. (New alignment - I 90--Butte S.E.).
	I 90-5 (8) 234	10-31-66	2.6 miles grade, drain, aggregate surface. Signing. (Moose Creek Access Road to I 90.).
	I 90-5 (5) 241 U1	10-31-66	9.6 miles four-lane divided, grade, drain, aggreg te & plant mix bituminous surface. Signing. One 275-ft. prestressed concrete beam - Underpass - County Road. (New alignment - I 90--Whitehall E. & --.).
	I 90-5 (5) 241 U2	11-30-65	9.6 miles fencing. (New alignment - I 90 - Whitehall E. & --.).
	I-IG 90-5 (5) 241 U3	7-31-66	Dual 345-ft. steel girder overpasses-NP RY. Four prestressed concrete beam bridges, Dual 108-ft. County Road, Dual 428-ft. Whitehall Interchange. (New alignment - I 90--Whitehall E. & --.).
6	I 15-1 (20) 51 J1	7-31-66	9.8 miles grade, drain, aggregate & plant mix bituminous surface. Rest area. signing. (I 15-.. of Dillon.).
	I 15-1 (20) 51 U2	7-31-66	9.8 miles fencing. (I-15-S. of Dillon.).
	I 15-1 (20) 51 U3	4-30-65	Three prestressed concrete beam structures. One 188-ft. beaverhead River, one 169-ft. Beaverhead River, one 123-ft. Barretts Interchange. (I 15-S. of Dillon.).
5	I-IG 15-2 (18) 126 U2 & I 15-2 (2, 126 U2	6-30-65	Five structures, two prestressed concrete beam overpasses, one 308 & 321-ft. BAMP RY. & CM&PAP RY, three steel & concrete overpasses, one 428 & 489-ft. NP RY. & Clark Fork, one 244-ft. -- Butte R.R.. (I 15-Butte --.).
	I-IG 15-2 (16) 126 U1	6-30-65	Dual 463-ft. steel & concrete overpasses - NP RY. & CM&PAP RY. (I 15-Butte --.).
	I-IG 15-2 (18) 131 U1	7-31-66	3.6 miles grade, drain, resent stabilized base, aggregate & plant mix bituminous surfacing. One 230-ft. steel & concrete overpass -- RY. Signing. (New alignment I 15-Butte R.E.).
	I-IG 15-2 (18) 131 U2	4-30-65	3.6 miles fencing. (New alignment - Butte R.E.).
	I 15-2 (19) 126	6-30-65	3.5 miles signing, delineation & lighting. (I 15-.. of Butte E.).
	I 15-2 (21) 126	11-30-65	2.3 miles grass seeding. (I 15-Butte --.).
	I 15-2 (4) 126	11-30-65	0.3 miles grass seeding. (I 15-Butte --.).
7	I 90-3 (11) 180	6-30-65	8.2 miles seeding & mulching. (U.S. 10--. & S. of Deer Lodge).
8	I 90-6 (13) 246 U1	4-15-65	8.4 miles, grade, drain, resent base stabilization, aggregate surface, Portland Cement Concrete Pavement & plant mix bituminous surface. Four prestressed concrete beam structures, dual 113-ft. overpass-County Road, dual 445-ft. underpasses-U.S. 10-W. Bozeman Interchange. (New alignment-I 90-Belgrade to Bozeman).
	I 90-6 (13) 246 U2	4-15-65	8.4 miles fencing. (New alignment I 90-Belgrade to Bozeman).
	I-IG 90-6 (14) 287 U1	9-30-65	9.5 miles four-lane divided, grade, drain, cement stabilized base, aggregate surface, Portland Cement Concrete Pavement & plant mix bituminous surface. Signing. (New alignment I 90-Manhattan to Belgrade.).
	I 90-6 (13) 246 U3	4-15-67	8.4 miles signing. (New alignment I 90-Belgrade to Bozeman.).
	I-IG 90-6 (14) 287 U2	4-30-65	9.5 miles fencing. (New alignment I 90-Manhattan to Belgrade.).
	I-IG 90-6 (14) 287 U3	7-31-65	Five prestressed concrete beam structures, dual 113-ft. Reeb Lane Separation, dual 113-ft. Central Park South Separation, one 215-ft. Belgrade Interchange. (New alignment--Manhattan to Belgrade.).
	I-IG 90-6 (14) 287 U4	7-31-65	Six prestressed ronrete beam structures, dual 82-ft. Camp Creek, dual 92-ft. Baker Creek, dual 205-ft. West Gallatin River. (New alignment I 90-Manhattan to Belgrade.).
9	IG 90-8 (29) 395	6-30-65	Remove 208-ft. steel overpass - NP RY. (Old alignment U.S. 10--. of Columbus).
10	I 15-5 (25) 238	6-30-65	15'6" 3 x 10'6" R. Structural Plate pipe arch culvert. (U.S. 91--. of Wolf Creek.).
11	I 90-1 (16) 43	6-30-65	9.7 miles seeding & mulching. (U.S. 10--. & S. of Superior.).
12	I-IG 90-4 (7) 205 U1	6-30-65	4.5 miles four-lane divided, grade, drain, cement stabilized base, surface & plant mix bituminous surfacing. Frontage Roads. Rest areas, signing & delineation. (I 90-S. of Deer Lodge).
	I 90-4 (11) 205	11-30-65	4.5 miles grass seeding. (I 90-S. of Deer Lodge.).
13	I 90-2 (22) 108	6-30-65	Four continuous welded steel plate girder bridges, dual 455-ft. & dual 404-ft.-Clark Fork. (New alignment - I 90--. of Bonner E.).
	I 90-2 (28) 110	11-30-65	9.2 miles grass seeding. (New alignment - I 90--. of Bonner E.).
14	I-IG 90-8 (17) 433 U3	6-30-65	5.3 miles fencing. (New alignment I 90-Laurel E.).
	I 90-8 (33) 433	11-30-65	5.3 miles grass seeding. (New alignment - I 90-Laurel E.).
15	I 15-1 (21) 46	11-30-65	9.3 miles grass seeding. (I 15-S. of Dillon.).
16	I-IG 90-2 (21) 80 U1	6-30-65	4.3 miles (2.6 miles four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing. (U.S. 10-E. of Alberton.).
	I-IG 90-2 (21) 80 U2	6-30-65	4.3 miles fencing. (U.S. 10-E. of Alberton.).
17	I 15-6 (18) 347	4-30-65	One 346-ft. prestressed concrete beam bridge-Teton River. Road approaches to bridge. (I-15-N. of Dutton.).
18	I-IG 15-5 (20) 273	7-1-65	3.0 miles four-lane divided, grade & drain. (New alignment-I 15-in Great Falls.).
	I 15-5 (22) 273	11-30-65	Dual 483-ft. prestressed concrete beam bridges - Sun River. (New alignment - I 15-in Great Falls.).
	I 15-5 (26) 271 U1	4-15-67	2.0 miles four-lane divided, grade, drain, cement stabilized base, aggregate & plant mix bituminous surface. Sign. Three prestressed concrete beam structures - one 240-ft. Bore Hill Interchange - one 216-ft. Spur Interchange - one 318-ft. County Road separation. (New alignment - I 15 - Great Falls S.).
	I-IG 15-5 (31) 273 U1	4-15-67	3.0 miles four-lane divided, cement stabilized base, aggregate surface, concrete paving, plant mix bituminous surface. Signing. (New alignment - I 15 - In Great Falls.).
	I-IG 315-5 (3) 272 U1	4-15-67	0.6 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface. Signing. (New alignment - I 315 - S. of Great Falls.).
	I 15-5 (26) 271 U2	4-15-67	2.0 miles fencing. (New alignment - I 15--reat Falls S.).
	I-IG 315-5 (31) 273 U2	4-15-67	3.0 miles fencing. (New alignment - I 15-In Great Falls.).
	I-IG 315-5 (3) 272 U2	9-15-67	0.6 miles fencing. (New alignment - I 315 - S. of Great Falls.).
	I-IG 315-5 (3) 272 U3	7-31-66	Three structures. Dual 146-ft. prestressed concrete beam - Bridge St. Separation. One 206-ft. steel & Concrete - G- RY. (New alignment - I 15 - S. of Great Falls.).
	I-IG 15-5 (28) 274 U1	7-31-66	One 265-ft. prestressed concrete beam structure-Central Avenue Interchange. (New alignment - I 15 - In Great Falls.).
	I-IG 15-5 (27) 274	7-31-66	Five prestressed concrete beam structures. Dual 123-ft. - 5th Avenue. One 245-ft.-Underpass-14th Street. Dual 356-ft.-Emerson Junction Interchange & NP RR. (New alignment - I 15 - In Great Falls.).
	I-IG 15-5 (28) 274 U2	10-31-66	Dual (160 & 490 ft.) welded steel late girder overpass - NP RY. (New alignment - I 15 - In Great Falls.).
19	I 90-6 (17) 286	11-30-65	10.7 miles (181.2 acres) grass seeding. (New alignment - I 90 - E. of Three Forks.).
22	I 90-8 (22) 444 U1	9-15-66	3.0 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface. Sign. Two prestressed concrete beam structures. One 215-ft. underpass-Billings Boulevard Separation. One 304-ft.-Sugar Avenue Separation. (New alignment-I 90--. of Billings).
	I 90-8 (22) 444 U2	9-15-66	3.0 miles fencing. (New alignment - I 90--S. of Billings.).
	I-IG 90-8 (23) 447 U3	9-15-67	3.0 miles fencing. (New alignment - I 90--E. of Billings.).
	I-IG 90-8 (23) 447 U2	9-15-67	3.6 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface. Six prestressed concrete beam structures. Dual 223-ft. underpass-Billings 27th Street Interchange, Dual 148-ft.-Montana Power rail spur, Dual 270-ft.-Underpass-Lockwood Flats Interchange. (New alignment - I 90 - E. of Billings.).
	I 90-8 (25) 438	7-1-65	6.1 miles signing & delineation. (U.S. 10--.. of Billings.).
	I 90-8 (19) 443 U1	7-1-65	1.2 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10--est Billings Interchange.).
	I 90-8 (19) 443 U2	7-1-65	1.2 miles fencing. (U.S. 10--est Billings Interchange.).
	I 90-8 (34) 443	11-30-65	1.) miles (62.6 acres) grass seeding. (New alignment - I 90 - E. of Billings.).
23	I 15-4 (18) 210 U1 & I 15-4 (21) 210	7-31-65	2.1 miles four-lane divided, grade, drain, surface, plant mix bituminous surfacing & signing. (U.S. 91--. of Wolf Creek.).
	I 15-4 (18) 210 U2	7-31-65	2.1 miles fencing. (U.S. 91--. of Wolf Creek.).
	I 15-4 (20) 212 J1	4-15-65	5.8 miles grade, drain, aggregate surface, plant mix bituminous surfacing & signing. Rest area. (U.S. 91-Wolf Creek S.).
	I 15-4 (20) 212 U2	6-30-65	5.8 miles fencing. (U.S. 91-Wolf Creek S.).
	I 15-4 (20) 210	6-30-65	Dual 519-ft. Steel Bridge. Little Prickly Pear Creek. (U.S. 91-Wolf Creek S.).
	I 15-4 (25) 218 U1	7-15-66	2.7 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface. Sign. Dual 113-ft. prestressed concrete beam overpass - Wolf Creek Interchange. One 90-ft. steel Bridge-Little Prickly Pear Creek on approach to Wolf Creek Interchange. One 490-ft. steel underpass-Augusta Interchange. (New alignment I 15 - Wolf Creek N.E.).
	I 15-4 (25) 218 U2	7-15-66	2.7 miles fencing. (New alignment I 15 - Wolf Creek N.E.).
24	I 90-3 (12) 151 J1	11-30-65	6.7 miles grade, drain, aggregate & plant mix bituminous surface. Signing. Neigh station. (I 90 & U.S. 10-Drummond Section.).
	I 90-3 (12) 151 U2	11-30-65	6.7 miles fencing. (I 90 & U.S. 10-Drummond Section.).
	I 90-3 (12) 151 J3	10-31-65	Four dual prestressed concrete beam overpasses. Dual 123-ft.-West Drummond Interchange. Dual 128-ft.-Edwards Gulch Separation. Dual 113-ft.-East Drummond Interchange. Dual 128-ft.-Silver Route 271 Separation. (I 90 & U.S. 10-Drummond Section.).
25	I 15-8 (11) 383 U2	4-30-65	4.5 miles fencing. (U.S. 91-Sweetgrass S.).
27	I 90-1 (21) 67	6-30-65	One 807-ft.-continuous welded plate girder bridge--Clark Fork. (U.S. 10-W. of Alberton.).
	I 90-1 (22) 71	6-30-65	One 768-ft.-continuous welded plate girder bridge-Clark Fork. (U.S. 10--. of Alberton.).
	I-IG 90-1 (27) 65 U1	8-30-65	6.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing. (U.S. 10-W. of Alberton.).
	I-IG 90-1 (28) 72 U1	8-30-65	3.7 miles grade, drain, aggregate & plant mix bituminous surface. Frontage Road. Rest Area. Signing. (U.S. 10-W. of Alberton.).
	I-IG 90-1 (27) 65 U2	7-31-65	6.6 miles fencing. (U.S. 10--. of Alberton.).
	I-IG 90-1 (28) 72 U2	9-30-65	3.7 miles fencing. (U.S. 10--. of Alberton.).
	I-IG 90-1 (26) 66	7-1-65	Three structures. One 443-ft. steel & concrete overpass-CM&PAP RR. & Frontage Road. One 138-ft. Steel & concrete overpass - NP RY.
28	I 90-1 (25) 59	10-31-65	One 198-ft. prestressed rencrete underpass-Fish Creek Interchange. (U.S. 10--. of Alberton.).
	I 90-1 (24) 54	8-31-65	One 826-ft. welded plate girder bridge-Clark Fork. (U.S. 10--.E. of Superior.).
	I 90-1 (30) 50 U1	7-1-65	One 757-ft. welded plate girder bridge-Clark Fork. (U.S. 10--.E. of Superior.).
	I 90-1 (30) 50 U2	7-1-65	3.9 miles fencing. (U.S. 10--.E. of Superior.).
	I 90-1 (31) 54	11-30-65	One 757-ft. continuous welded steel plate girder bridge-Clark Fork. (U.S. 10--.E. of Superior.).
	I 90-1 (32) 59	11-30-65	One 825-ft. continuous welded steel plate girder bridge-Clark Fork. (U.S. 10--.E. of Superior.).

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH, TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID PRIMARY PROJECTS		
101	F 33 (6) & F 108 (9)	6-30-65	8.0 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Roundup.).
102	F 238 (6)	7-15-66	1.9 miles fencing. (Montana 287--olf Creek N.).
	F 238 (10)	7-15-66	1.9 miles grade, drain, aggregate & plant mix bituminous surface. Sign. (Montana 287-Wolf Creek N.).
103	F 64 (10)	6-30-65	0.2 mile repair of slide drainage. (U.S. 87-S. of Belt.).
104	F 239 (13)	9-16-65	2.2 miles (0.1 mile Portland Cement Concrete pavement, grade, drain, aggregate surface & plant mix bituminous surface. (U.S. 12-White Sulphur Springs N.E.).
	F 8 (11)	9-16-65	5.2 miles grade, drain, aggregate surface & plant mix bituminous surfars. Widen 24-ft. timber bridge-Four Mile Creek to 40 ft. roadway. (U.S. 12-White Sulphur Springs N.E.).
105	F 262 (14)	7-15-65	9.6 miles grade, drain, aggregate & plant mix bituminous surface. Two prestressed roncrete beam bridges. One 144-ft.-Thompson Creek. One 142-ft.-Little Missouri River. (U.S. 212-Wyoming Line N.--.).
106	F-FG 68 (12) U1	6-30-65	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation. (U.S. 10A-E. of Anaconda.).
	F-FG 68 (13)	11-30-65	2.7 miles grass seeding. (U.S. 10A-E. of Anaconda.).
107	F 354 (7)	8-15-66	7.0 miles grade, drain, aggregate and plant mix bituminous surface. Signing. (Mont. 38-S.W. of Philipsburg.).
108	U 368 (8)	7-15-67	0.2 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface. Sign. (U.S. 91--. of Great Falls.).
109	F 220 (8)	7-16-65	3.3 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
	F 154 (6)	7-16-65	4.2 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
110	F 148 (8)	6-30-66	Three prestressed concrete beam bridges. One 172-ft.-Beaver Creek. One 355-ft.-Milk River. One 143-ft.-Milk River Overflow. (U.S. 2-E. of Saco.).
	F 148 (9)	6-30-66	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 2-E. of Saco.).
111	F 64 (11)	10-31-66	0.4 miles grade, drain, aggregate & plant mix bituminous surface. Sign. (U.S. 10--hitehall approach to I-90.).
112	F 86 (24)	11-15-65	11.8 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 12-E. of Miles City.).
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocation portion of NP RY traces. (U.S. 89-S. of Livingston.).
114	F 205 (8) U1	11-30-65	4.3 miles grade, drain, aggregate & plant mix bituminous surface. Signing. (U.S. 10A-New alignment-Drummond South).
	F 205 (8) U2	10-31-65	Three prestressed concrete beam structures. One 301-ft.-Clark Fork. One 165-ft.-CM&PAP RY. One 183-ft.-NP RY. (U.S. 10A-New alignment-Drummond S.)
115	U FG 228 (16)	6-30-65	1.5 miles grade, drain, resent stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One roncrete underpass - NP RR. (U.S. 10--in Billings.).
	F 228 (19) U1	7-1-65	0.6 miles grade, drain, aggregate & plant mix bituminous surfars. Signing & delineation. (U.S. 10--est Billings Interchange.).
	F 228 (19) U2	7-1-65	0.6 miles fencing. (U.S. 10--est Billings Interchange.).
116	F 260 (10)	7-1-65	0.5 miles, grade, drain, aggregate & road-mix bituminous surface. Support wall for slide area rorrection. (U.S. 2-E. of W. Glacier.).
117	F 115 (14)	8-4-65	8.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & lighting. (U.S. 12-Harlowton E.).
118	F 149 (21) & F 395 (9)	6-30-65	Lighting & signals. (U.S. 87 & ByPass Junction-Great Falls.).
	F 180 (7)	6-30-65	Lighting & signals. (U.S. 87-E.of Great Falls.).
119	F 193 (16)	9-15-65	1.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-N Plentywood.).
120	ER 60 (2) (F67)	8-31-65	Bridge berm repair and riprapping of Marias River Bridge. (U.S. 91-S. of Shelby.).
121	ER 53 (2) (F 208)	6-30-65	Repair flood damaged 122-ft. prestressed ronrete beam bridge-Kennedy Cruse & Road Approaches. (U.S. 89-N.-. of Browning.).
122	ER 57 (2) (F 236)	6-30-65	0.2 mile repair flood damage, grade, drain, aggregate & bituminous surface treatment. Install 12'10" D & 8'4" R. x 82" R.P.A.C. culvert & Cartwright Coulee. (U.S. 87-N. of Dupuyer.).
123	F 191 (20) U1	6-30-65	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S. 93-N. of Polson.).
124	F 246 (13)	6-30-65	9.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Montana 203-S. of Circle.).
125	F 2 (17)	6-30-65	24.4 miles aggregate & plant mix bituminous surfacing. (Montana 7-N. of Baker.).
126	ER 59 (3)	7-31-65	One 183-ft. prestressed ronrete beam bridge-Deep Creek. Road approaches. (Montana 287--. of Choteau.).
127	F 184 (15)	6-30-65	1.1 mile seeding & mulching. (U.S. 10-W. of Deer Lodge.).
128	ERFO 61 (1) **	1965	3.0 mile grade, drain, aggregate & plant mix bituminous surfacing. One 30-ft. roncrete slab bridge-Cougar Creek. (U.S. 191 N. of W. Yellowstone.).
129	F 251 (11)	9-15-65	7.6 miles grade, drein, aggregate & plant mix bituminous surface. (Montana 5-Scobey E.).
130	F 27 (6) & F 28 (5)	9-15-65	6.1 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Grass Range.).
131	F 43 (17)	6-30-65	15.9 miles plant mix bituminous surfars. (Montana 43-W. of Wisdom.).
132	F 53 (13) & F 230 (9)	6-30-65	2.1 miles, four-lane median divided grade, drain, aggregate & plant mix bituminous surface. (U.S. 10-Billings E.).
133	ER 57 (6) (F 236)	6-30-65	0.3 miles grade, aggregate & bituminous treatment, bridge approarhes. One 122-ft. prestressed roncrete beam bridge-Dupuyer Creek Overflow. (U.S. 87-N. of Dupuyer.).
134	F 215 (12) U1	11-30-65	One 122-ft. prestressed concrete beam bridge--Lolo Creek. (U.S. 93-S. of Lolo.).
135	ER 59 (2) (F 65)	9-30-65	One 140-ft. prestressed roncrete beam span addition to existing 165-ft. concrete & steel pony truss bridge-Teton River. (U.S. 89-S. of Choteau.).
136	SAP 4220-01-4310-01-23-4030	6-30-65	Repair drainage system & retaining wall of underpass - GN RY. (Mont. 13--in Wolf Point.).
137	F 191 (28)	10-31-66	One 1536-ft. prestressed roncrete beam bridge-Flathead River. 0.4 mile grade, aggregate & plant mix surface approaches. (U.S. 93-Polson --.).
138	F 9999 (2)	12-1-65	368.7 miles signing & delineation. Signals & channelization of three intersections in Helena. (U.S. 12-Garrison to Forsyth.).
140	ER 57 (7) (F 236)	9-30-65	0.3 mile grade, drain, aggregate & bituminous surface treatment. One 82-ft. prestressed concrete beam bridge-Valley Irrigation Canal. (U.S. 87-N. of Dupuyr.).
142	F 190 (6) U1	10-31-66	3.8 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-N. of Dupuyer.).
	ROW F 190 (5)	10-31-66	3.8 miles fencing. (U.S. 87-N. of Dupuyer.).
	F 190 (6)	10-31-66	1.8 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-N. of Dupuyer.).
	F 190 (6) U2 & EM 57 (3) (F 190)	10-31-65	Two prestressed concrete beam bridges. One 213-ft.-Birch Creek. One 142-ft.-Blacktail Creek. (U.S. 87-N. of Dupuyer.).
143	U 222 (16)	10-31-65	1.3 miles grade, drain, aggregate & plant mix bituminous surface. Signing & traffic control devices. (U.S. 10-In doseman.).
144	FG 257 (17)	5-31-66	Lengthen by 50 ft. to 179 ft.-steel & concrete underpass - GN RY. (U.S. 2-E. of Kalispell.).
145	ER 52 (2) (F 375)	7-31-66	Remove bridge in place. Construct one 433 ft.-weld-ed plate girder bridge-Middle Fork of Flathead River. (At West Glacier.).
146	ER 53 (3) (F 190)	6-30-66	Two prestressed concrete beam bridges. One 70 ft.-Agency Creek. One 306 ft.-Badger Creek. (U.S. 87-N.E. of Browning.).
	FEDERAL AID SECONDARY PROJECTS		
201	S 340 (8)	8-15-65	4.4 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Chinook.).
202	S 58 (6)	8-31-65	1.1 miles grade, drain, aggregate & plant mix bituminous surface. One 65-ft. welded plate girder bridge-Flathead River. One 128-ft. prestressed concrete beam overpass - NP RY. (Ferns North.).
203	R-AD 11 (1) & S 368 (16)	4-15-65	2.9 miles grade, drain, aggregate & plant mix bituminous surface. Widen to 30-ft. roadway bridge over East Fork Cherry Creek. (Glasgow N.).
204	S 316 (11)	6-30-65	7.0 miles grade, drain, aggregate & plant mix bituminous surfacing. (N. of Cut Bank.).
205	S 318 (4) & S 347 (11) *	8-31-65	8.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Kalaka S.).
206	S-SG 192 (4) U1	7-1-65	1.0 miles grade, drain, aggregate & plant mix bituminous surfacing. Signing & delineation. (Connection to --. Billings Interchange.).
	S-SG 192 (4) U2	7-1-65	1.0 miles fencing. (Connection to --. Billings Interrnange.).
	S-SG 192 (5)	6-30-65	One 190-ft. prestressed concrete beam overpass-NP RY. (S.-. of Billings.).
207	S 35 (13)	10-30-65	10.2 miles grade & drain. (W. of Dillon.).
208	S 18 (6)	6-30-65	7.3 miles grade, drain, aggregate & plant mix bituminous surfacing. One 112-ft. prestressed concrete beam bridge-Russellsfell River. (Twodot S.).
209	S 237 (3)	9-1-65	5.4 miles grade, drain, aggregate & plant mix bituminous surface. (Act. with I 15 4-01-65 E. - E. of Arvin.).
210	S 2 (7)	6-15-65	6.2 miles aggregate & plant mix bituminous surface. (Junction Montana 20E.).
211	ERFO 41 (1) **	1965	15.6 miles grade, drain, aggregate & plant mix bituminous surfacing. Two roncrete slab bridges. 75-ft. Grayling Creek & 124-ft. Beaver Creek Widen 83-ft. concrete girder bridge-Cabin Creek. (N.-. of W. Yellowstone.).
212	S-AG 218 (2)	9-30-65	0.6 miles grade, drain, aggregate & plant mix bituminous surfacing. One 34-ft. concrete underpass-Dakota Streat. Two 38-ft. steel underpasses-CM&PAP RR. (Russell St.-S. of Missoula.).
213	S 301 (13)	6-30-65	5.0 miles grade, drain, aggregate & plant mix bituminous surface. (N.-. of Havre.).
214	S 65 (7)	7-1-65	4.9 miles aggregate & plant mix bituminous surface. (S. of Big Fork.).
215	ROW S 370 (13)	6-30-65	Reset 234 rods of fencing. (W. of --ilsall.).
216	S 307 (14)	7-31-65	6.1 miles grade, drain, aggregate & plant mix bituminous surface. Widen three timber bridges to 28-ft.-White Battle Creek, two 24-ft.-Butte and Cowboy Steel Creek. (N.E. of Geraldine.).
	S 307 (15)	7-31-65	5.1 miles grade, drain, aggregate & plant mix bituminous surface. (N.E. of Geraldine.).
217	S 264 (4)	6-30-65	Install 120" Structural Plate Pipe. (N. of Van Norman.).
218	S 417 (3)	7-30-65	7.3 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Plentywood.).
219	S 85 (00) U2 & S 85 (3) U2	6-30-65	Three prestressed concrete beam bridges. One 42-ft. & 71-ft.-Horse Prairie Creek. One 71-ft.-Medicine Lodge Creek. (Armstead W.).
220	S 102 (7)	7-1-65	3.2 miles grade, drain, aggregate & plant mix bituminous surface. (N.E. of Laurel.).
221	S 410 (3)	4-1-65	6.6 miles grade & drain. (N. of Troy.).
222	S 405 (3)	10-15-65	7.9 miles grade, drein, aggregate & plant mix bituminous surface. one 165-ft. prestressed roncrete beam bridge-Spring Creek. (Hanover E. & W.).
223	ER 53 (4) (FAS 266)	6-30-65	one 173-ft. prestressed concrete beam bridge--Cut Bow Creek. (N. of Browning.).
224	S 413 (3)	6-30-65	1.4 miles grade, drain, aggregate & plant mix bituminous surface. One 102-ft. prestressed roncrete beam bridge-Flint Creek. (S. of Drummond E.).
	S 414 (3)	6-30-65	2.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Drummond --.).
225	ER 53 (5) (FAS 249)	6-30-65	One 163-ft. prestressed concrete beam bridge-Cut Bank Creek. (N.-. of Browning.).
226	ER 57 (4) (S 193)	6-30-66	One 285-ft. prestressed concrete beam bridge-Birch Creek. (N.-. of Valier.).
227	S 48 (19)	7-1-66	7.0 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S. 93-N. of Polson.).
228	ER 60 (1) (S109)	8-31-65	Bridge berm repair and riprapping of Marias River bridge. (S.E. of Shelby.).
229	S 419 (3)	8-30-65	0.9 miles grade, drain, aggregate surface. 0.7 miles plant mix bituminous surface. (Approach I 90 Separation--. of Alberton.).
230	S 243 (5)	10-31-65	0.6 miles grade, drain, aggregate & plant mix bituminous surface. (Bozeman S.).
231	EM 57 (5) (S 193)	7-30-66	One 316-ft. prestressed roncrete beam bridge-Two Medicine Creek. (S. of Cut Bank.).
232	FAP W-1 (2)	1965	3.8 miles grading. (E. of St. Regis).
233	EM 59 (4) (S 241)	7-30-65	Bridge berm repair, stream bank protection and riprapping on bridge-Teton River. (E. of Choteau.).
236	S 9 (10)	6-30-65	3.7 miles reshape, aggregate & plant mix bituminous surface. (S. of Boulder.).
237	S 107 (9)	6-30-65	7.0 miles grade, drain, aggregate surface & plant mix bituminous surface. Widen timber bridge to 32-ft. roadway. (N.E. of Conrad.).
238	S 400 (4)	8-30-65	6.4 miles aggregate & plant mix bituminous surface. (S. of Hamilton E.).
239	S 426 (4)	8-31-65	0.2 miles grade, drain, eggregate surface, approaches to Gallatin River Bridge. (N.E. of Manhattan.).
240	S 415 (3)	6-30-65	6.0 miles grade, drain, aggregate surface. One 92-ft. prestressed concrete beam bridge-Lake Creek. (E. of Medicine Lake.).
241	S 194 (4)	6-30-65	0.3 miles grade, drain, aggregate surface. One 225-ft. prestressed concrete beam bridge--Box Elder Creek. (E. of Ekalaka.).
242	S 243 (3)	7-31-65	6.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Bozeman.).
243	S 388 (5)	6-30-65	7.5 miles grade, drain, & aggregate surface. (N.E. of Miles City.).
244	US 70 (4)	8-15-65	0.7 miles grade, drain, aggregate & plant mix bitu

Clay Smith, Sectionman at Roy, takes the place of the late Carrol Hough, and welcome to the "gang" is Tom Siroky who will be the Sectionman's helper.

Great Falls

From the beginning:

Births—Girls to Mr. and Mrs. Sonny Farry, and Mrs. and Mr. Willard Kramlich; and boys were born to Mr. and Mrs. Jim Trankel, "Sigh" Bentzen's daughter-in-law and son presented him with a grandson.

Competitive — "Population Explosion" contest—Jim Trankel's 7-man crew boasts a total of 27 kids. Can any other crew top this percentage-wise?

"Ring Dem Bells" for Dewey Anderson who slipped the ring on Marge Nader's finger. Congratulations!

We wish to express our condolences to the Sutich family. Funeral rites were held for Palma Sutich, June 9, 1965, at the Blessed Sacrament Church in Black Eagle.

Retiring—Oscar Sampson, shown above, night watchman, was surprised with a transistor radio and a cake, before he retired. Oscar is taking up residence in Oregon.

Wolf Point

We just received word of the passing of a former employee of the Department, Walter Koester. He passed away at Van Nuys, California on June 9 and at the time of his passing was on a disability retirement. He first was employed by the Department on January 10, 1927 and was released for retirement in June of 1963. He was born April 30, 1904 and served approximately 35 years.

Congratulations to Wilbur Baker for passing the Bridge Inspector exam and we wish him well at his new location. He is being transferred to Great Falls from our Division on June 16th.

We want to welcome Harold Kelly, Project Engineer, who was transferred to our Division from the Glendive Area.

Congratulations to Richard Hobby who passed the Instrumentman Training Service exam.

Billings

James M. Young

The State has taken over maintenance of the newly completed Bear Tooth Highway above Red Lodge to Yellowstone Park. Pictured is Buck Homewood, Maintenance Foreman.

Four state employees participated in the Barber Shop Chorus Show at Great Falls on May 22. Making the trip were Don Copley, Rus Chaney, Walt Ward and Bill Woolston.

We welcome new employee I. Wes Rimel of Lewistown, who has joined the R/W. His wife Mary and five children have lived in Wibaux the past two years. They will make their home here.

Jim Monahan, Sectionman of Roberts, gave his lunch to a family of six who were forced to spend the night on the Beartooth Highway. Two cars of the party were involved in a mishap and one family waited while repairs were made in Red Lodge. (From 3:00 a. m. till 3:00 p. m. Jim was almost as hungry as the kids were).

Lee Anderson fractured a leg in a softball game. Lee will be in the hospital for several days, the break required surgery. We all wish Lee a speedy recovery.

Seventeen State employees on Slow Pitch Softball team. The Ox Bow Mets, true to their name, are a shade below 11th place in a 12-team league. But it's early in the season, and with a bit more practice and no more casualties, we hope to see them on top.

Bozeman

by Florence Hulbert

Project Engineer Robert S. Ricketts and wife are now the parents of a son who was born April 30 weighing 6 lb. 4 oz. There are two little gals to help with the new baby and we understand his father has future ideas of another Project Engineer in the family.

As proud as a Peacock was a new grandfather for the first time. Hup Davis, Office Manager, proudly announced that he had a new grandson, Darren Figgins. Mr. and Mrs. Dan Figgins are parents, Mrs. Figgins is Hup's daughter.

The Division has been bustling with activity and with the good weather here both construction and maintenance are giving their all towards better roads.

Glendive

by Janice Rikustad

Glendive Division has another unbelievable tale to tell.

We are absolutely tounge-tied after looking at pictures of the catch of trout brought in by three of our highway employees, Elton Hartze, Dick Chrest, and James Hein, who just returned from a five-day fishing and camping trip that included ponds and streams in the West Yellowstone area. They came back triumphant, sun burned, tired from hauling in all the fish, a little bit thinner from living on Hartze's cooking for the entire trip, and a little tired from trying to make everyone believe their tall tales of their wonderful fishing trip. They all state, however, that it will be a long time before they forget the still unbelievable catch of 3 to 5 lb. trout that they brought back with them.

This is one of the pictures showing the damage to Interstate 94 by the flash flood which occurred near here on the 15th of this month.

Some of the old timers say they have never seen rain come down in solid continual sheets, nor the creeks running bank-full.

The area reportedly received about seven inches of rainfall in about seven hours, causing considerable damage and loss.

Newly-completed IS 15 is shown here with shoulder and slope damage caused by the high water. The white line is shoulder stripe.

District Engineer Bill Brittain estimates the cost of repair to the 5 miles of damaged Griffith Creek to be $15,000.

We are proud of the maintenance men in our division through whose efforts traffic was restored in about 2 hours after the high water washed out the approach to the Griffith Creek bridge.

Havre

by L. A. Horvick

Lennart (Chop Sing) Carlson was married to Pat Austin of Belt on June 19, 1965. Congratulations.

Shown here are Materials Inspectors Leonard Thackery, left and Paul English, right, discussing one of the soils problems they encountered, as members of the Montana Archaeological Society, while constructing this natural diorama in the newly constructed museum that is located adjacent to the State Highway Department Headquarters in Havre.

This lifesize exhibit depicts an archaeological site, which is located a few hundred feet north of the department headquarters. The site has been inhabited five times over a period of 2500 years by Indian bison hunters. The sterile zones, between human occupation levels, were deposited by wind and water during the years when the site was not inhabited. A tipi ring, visible on the original ground, depicts the wide profusion of tipi ring campsites that are still visible on our prairies today.

This site has been examined by the Smithsonian Institution and Montana State University as well as professional archaeologists and institutions in Canada. Since it is scientifically significant as well as being of unusual local and tourist interest it is presently being developed as a national archaeological resource as well as an educational attraction. The Hill County Commissioners anticipate improving the area as a park and are presently examining the feasibility of incorporating it into the State Park System. The State Highway Department is also considering the construction of a historical marker in the area.

We, in Havre, would like to extend an invitation to anyone interested, to visit our "backyard." Paul, as a director of the Montana Archaeological Society, has done considerable research of the site and between he and Leonard would enjoy conducting a guided tour, after hours that is.

COMMISSION TO VISIT DIVISIONS

The Montana Highway Commissioners will see, first hand, some of the major construction projects within the next year and a half.

The intention is to spend part of a day of their regular monthly meeting touring some of the new highway jobs, in the months when travel is feasible.

Definately scheduled so far is a trip to the Butte Division in August to see Montana's largest contract project, Pipestone Hot Springs, along with the Homestake and the Butte-East jobs.

In September, the Commission plans to tour the Broadus-Biddle, and the Ekalaka-Alzada areas, headquartering in Miles City for this journey.

The October visitation will be made to the Wolf Point Division, to inspect one or two of several projects in that area.

Tentatively scheduled for 1966 are; the Wild Horse Trail project in the Havre Division, the new bridge at Polson, and the one at West Glacier.

Here is some interesting English terminology for familiar highway terms.

Fly-over	Overpass
Fly-under	Undeprass
Lay-by	Rest area, or turnout
Bend	Curve
Double Bend	Reverse Curve
Dual Carriageway	Super-highway
Round About	Traffic Circle

WHERIZZIT?

Last month seven correctly identified the location of our mystery picture. First one with the correct answer was Carol Lieberg of the Billings office. He and six others, located the project as IS 94 between Hysham and Custer in the Hysham hills.

If you think you know the location of this month's WHERIZZIT, send your answer to Centerline in Helena.

ARE YOU DRIVING TOO SLOW?

The American Road Builders Association states that "Highway traffic is moving faster these days, thanks largely to better roads. Many of the hazards that used to force motorists to drive at a slow pace have been eliminated.

"The safest driving speed, generally, is the speed of prevailing traffic. If you seem to be passing 'everyone' on the road, you are probably driving too fast. On the other hand, if 'everybody' is passing you, you are obstructing the free flow of traffic and are probably driving too slow."

Some of our readers may not know the penalties for littering the highway.

It shall be unlawful for any person or persons to dump or leave garbage of other debris or refuse on any public highway, road, street or alley of Montana, or in any public recreational property or within 200 yards thereof.

If found guilty of a violation you could be fined in the sum of not exceeding $25, or imprisioned in the county jail for a period not exceeding 30 days, or both.

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STATE HIGHWAY DEPARTMENT
Helena, Montana 59601

4

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